

Nathan Joseph Savas

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Education

California State University, Long Beach

Exp. Graduation: Dec 2021

Bachelors (B.S) In Computer Science

Concentration GPA: 3.67

Relevant Coursework: Analysis of Algorithms, Artificial Intelligence, Intro to Computer Security, Database Fundamentals, Operating Systems, Object Oriented Application Development, Intro to Software Engineering

Experience

Amazon Web Services (AWS)

Remote - CA

Software Development Engineer Intern

June 2020 - August 2020

- Worked with the AWS CodeGuru team to develop a visualization dashboard using React, Redux, and Redux-sagas for time-based analysis of anomalies found in user accounts
- Developed an algorithm to track anomaly data over time — identifying overlapping intervals and rendering results within custom Apache EChart components (Line & Gantt Chart)
- Implemented UX features (tested with Jest) to dynamically filter data, provide responsive tooltip displays, and export data to various file formats

Siemens PLM Software

Cypress, CA

Software Engineering Intern

May 2019 - January 2020

- Worked with the NX CAD Validation team to build a SaaS application using Angular.js that consolidates user design data by allowing customers to run custom reports on CAD models
- Developed an internal JavaScript client library for NX cloud teams to provide abstractions for handling API protocols and rendering report data in navigation tree UI components
- Integrated tool with another library to tag bitmap images directly within a WebGL viewer interface

Projects

Senior Design Project: PhotoSense 🌐 🔄

Python, JavaScript, AWS EC2

- Worked in a team of 5 to develop a full-stack AI face censoring system — deployed a Keras model as a RESTful API service to process image requests from our clients (web app, bots, chrome ext.)
- Integrated Flask API with Redis to process images in batch for optimized memory usage & latency
- Developed web-based drawing tools using the Canvas API to allow users to edit the AI-generated image segmentations directly within our React.js web application

US City Chemical Release Visualizer 🔄

JavaScript, PostgreSQL

- Led a team of 3 in developing a React.js application to visualize 30+ years of EPA chemical release data (~10GB) within any given US city
- Developed a RESTful API with Express.js to make queries from a PostgreSQL database
- Used the Mapbox JS SDK to render results in a map interface and React-Vis to create insightful visualizations for the user to explore

Skills

Programming Languages: Java, JavaScript, TypeScript, Python, C++, SQL, HTML, CSS

Frameworks/Tools: React, Redux, Express, Flask, Redis, Git, Node, AWS, PostgreSQL, JIRA, VS Code